

## ABSTRACT OF THE DISCLOSURE

A black amount/ solid color amount determination section determines a black amount K and a solid color amount O from an input  $L^*a^*b^*$  color signal and transfers K and O to a YMC determination section and an image record signal output section. The YMC determination section determines YMC color signal of an image output unit colorimetrically matching the  $L^*a^*b^*$  color signal input under a condition that the black amount is K color signal and the solid color amount is O color signal from the input  $L^*a^*b^*$  color signal and the KO color signal input from the black amount/ solid color amount determination section, and transfers the YMC color signal to the image record signal output section. The image record signal output section outputs the KO color signal input from the black amount/solid color amount determination section and the YMC color signal input from the YMC determination section.